



substituteseq.txt

SEQUENCE LISTING

<110> Kiselev, Vsevolod I  
Petr, Sveshnikov G

<120> METHODS, KITS, AND COMPOSITIONS FOR THE DEVELOPMENT AND USE  
OF MONOCLONAL ANTIBODIES SPECIFIC TO ANTIGENS TRADITIONALLY  
OF LOW IMMUNOGENICITY

<130> Immunize

<150> RU 2003128660  
<151> 2003-09-25

<160> 22

<170> PatentIn version 3.1

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<212> DNA  
<213> Human papillomavirus type 16

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<221> CDS  
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Asp Leu Gln Pro Glu Thr Thr Asp Leu Tyr Cys Tyr Glu Gln Leu Asn	
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gac agc tca gag gag gat gaa ata gat ggt cca gct gga caa gca	144
Asp Ser Ser Glu Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala	
35 40 45	
gaa ccg gac aga gcc cat tac aat att gta acc ttt tgt tgc aag tgt	192
Glu Pro Asp Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys	
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gac tct acg ctt cgg ttg tgc gta caa agc aca cac gta gac att cgt	240
Asp Ser Thr Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Arg	
65 70 75	
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Thr Leu Glu Asp Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile	
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Cys Ser Gln Lys Pro	
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<213> Human papillomavirus type 16

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Ser Glu Glu Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala Glu Pro  
35 40 45  
Asp Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys Asp Ser  
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Ser Met His Gly Pro Lys Ala Thr Leu Gln Asp Ile Val Leu	
1 5 10	
cat tta gag ccc caa aat gaa att ccg gtt gac ctt cta tgt cac gag	96
His Leu Glu Pro Gln Asn Glu Ile Pro Val Asp Leu Leu Cys His Glu	
15 20 25 30	
caa tta agc gac tca gag gaa aac gat gaa ata gat gga gtt aat	144
Gln Leu Ser Asp Ser Glu Glu Asn Asp Glu Ile Asp Gly Val Asn	
35 40 45	
cat caa cat tta cca gcc cga cga gct gaa cca caa cgt cac aca atg	192
His Gln His Leu Pro Ala Arg Arg Ala Glu Pro Gln Arg His Thr Met	
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ttg tgt atg tgt tgt aag tgt gaa gcc aga att gag cta gta gta gaa	240
Leu Cys Met Cys Cys Lys Cys Glu Ala Arg Ile Glu Leu Val Val Glu	
65 70 75	
agc tca gca gac gac ctt cga gca ttc cag cag ctg ttt ctg aac acc	288
Ser Ser Ala Asp Asp Leu Arg Ala Phe Gln Gln Leu Phe Leu Asn Thr	
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100

105

<210> 4  
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20 25 30

Ser Asp Ser Glu Glu Glu Asn Asp Glu Ile Asp Gly Val Asn His Gln  
35 40 45

His Leu Pro Ala Arg Arg Ala Glu Pro Gln Arg His Thr Met Leu Cys  
50 55 60

Met Cys Cys Lys Cys Glu Ala Arg Ile Glu Leu Val Val Glu Ser Ser  
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Ala Asp Asp Leu Arg Ala Phe Gln Gln Leu Phe Leu Asn Thr Leu Ser  
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gacgcccggcc agatcgccgg cctcaacgtg ctgcggatcg tcaacgagcc gaccgcggcc 600  
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substituteseq.txt

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Ser

<210> 10  
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<213> Human papillomavirus type 16

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10